

Bewamat 25 -75A 安裝及問題處理

注意：如要列印，
請選擇黑白列印

For You and Planet Blue. **BWT**
BEST WATER TECHNOLOGY

1. 安裝



For You and Planet Blue. **BWT**
BEST WATER TECHNOLOGY

Click to add Title

For You and Planet Blue.

BWT
BEST WATER TECHNOLOGY



Tools you need for the installation :
Torx-Screwdriver 20mm
Cross-Screwdriver
Flat-Screwdriver
Plier 11/2"
Needle-nose pliers
Side cutter

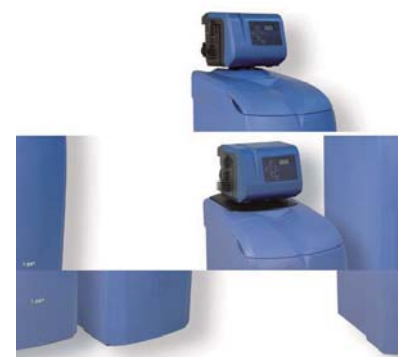
各式工具

3

Click to add Title

For You and Planet Blue.

BWT
BEST WATER TECHNOLOGY



Different Units

Left side Bewamat 25

Right side Bewamat 75

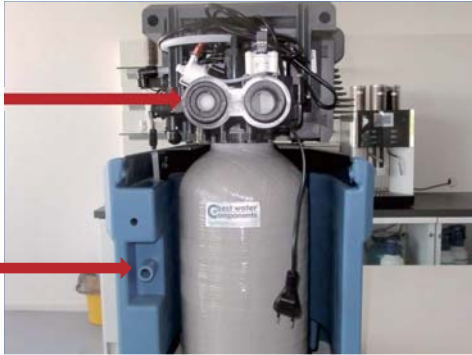
不同設備

左側 Bewamat 25

右側 Bewamat 75

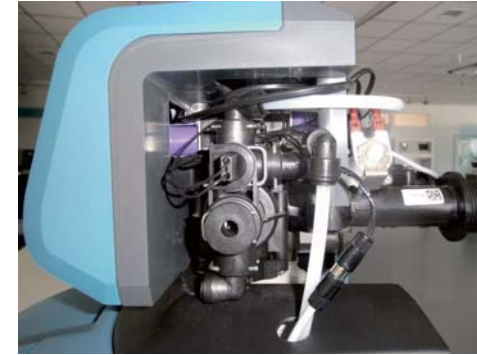
4

逆止閥
溢流孔



Bewamat 25-75 back view
Overflow connection
Check the jack-valve

背面
溢流孔
逆止閥



Valve head right side

閥頭右側



Valve-head left side

閥頭左側面

選購配件





Connect the watertubes inlet and outlet with the valve head

連接閥頭的進出水閥頭



Connect the bachwash tube with the valve head

Plug in the backwash tube

連接反洗排水管
插入反洗排水管



Connect the watertubes inlet and outlet with the valveblock from the waterpipes

連接閥頭及Bypaa進出管



Plug in the power supply

插上電源



Waiting for positioning

Displays shows **StArt 40 sec.**

Valveblock inlet water close

等待閥頭定位

顯示StArt 40 sec.

關閉關頭進水

13



Push sheet key button for about 10 seconds

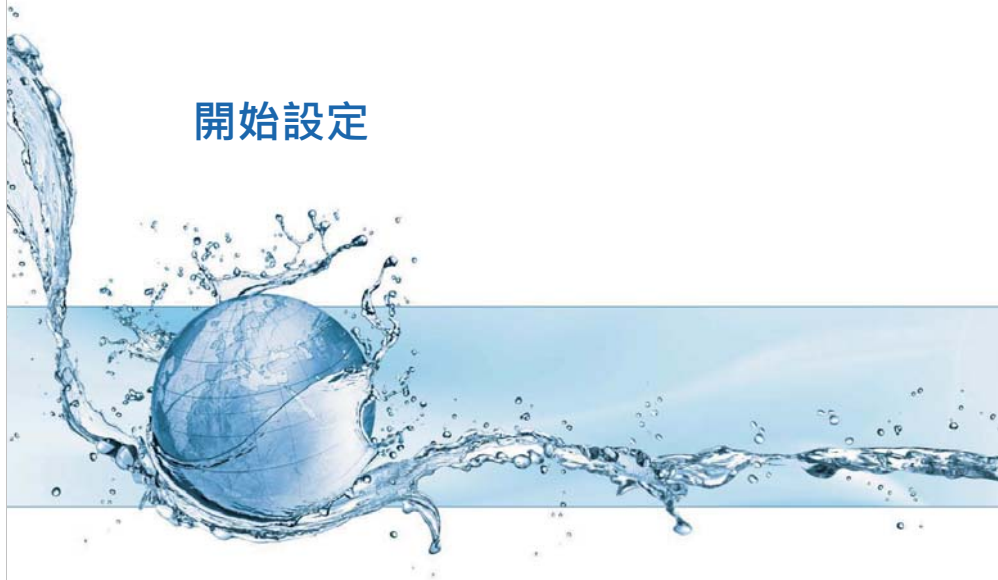
Open the water inlet slowly

按壓“頁面”鍵約十秒

慢慢開啟進水閥

15

開始設定



Push and hold sheet key until lbn appears in the display

按壓“頁面”鍵，直到“lbn”出現

16



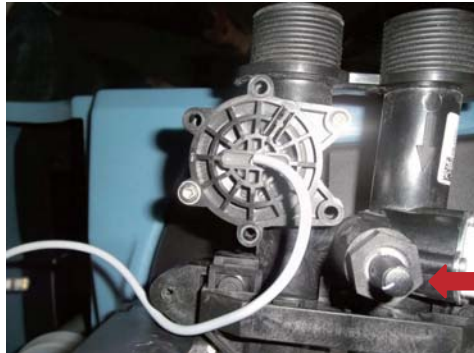
Flush out time for 1 minute
After the back wash softener is ready

大約一分鐘的沖洗時間
在反洗過後，軟水機即可使用



Check the hardness with the AQA Test kit

使用Aquatest原廠硬度測試劑



混合閥

Adjust the bleading valve
Turn right = lower / less hardness
Turn left = increase hardness

調整混合閥
向右轉 = 開啟，增加原水及硬度
向左轉 = 關閉，減少原水及硬度

設備處理容量





Push sheet key
Display shows SET

按壓“頁面”鍵
螢幕顯示“SET”



Push cursor down one time

按壓“向下”鍵一次



Push OK key
Display shows the time

按壓OK鍵
螢幕顯示目前時間



Push OK button
Display for capacity flashes

按壓OK鍵
螢幕顯示處理容量



Push cursor down or up for setting the capacity

按壓“向上”或“向下”鍵，調整處理容量



Push Set key

Programming is finished

按壓“SET”鍵
完成設定工作



Push OK button

Set the soft water supply

按壓OK鍵可設定完成處理容量



Push sheet key

按壓“頁面”鍵

設定時間

- Cursor nach links drücken

Click to add Title



Push OK button
Display is flashing

按壓OK鍵
螢幕顯示閃爍

Click to add Title



Push sheet key

按壓“頁面”鍵

Click to add Title



Push cursor left

按壓“向左”鍵



Push cursor up or down

Set the hour

按壓“向下”或“向上”鍵
設定小時



Push cursor up or down

Set the minutes

按壓“向上”或“向下”鍵
設定分鐘



Push cursor right

按壓“向右”鍵



Push OK button

按在OK鍵

Click to add Title



Push sheet key
Programming finished

按壓“頁面”鍵
設定完成

37

改變反洗再生時間



Click to add Title



Push sheet key

按壓“頁面”鍵

38

Click to add Title



Push sheet key

設定“頁面”鍵

40



Push OK button

按壓“OK”鍵



Push OK button

Display is flashing

按壓OK鍵

螢幕顯示閃爍



Push two times cursor down

按壓二次“向下”鍵



Push cursor up or down

Set the minutes

按壓向下或向上鍵
設定分鐘



Push cursor left

按壓向左鍵



Push OK button

按壓OK鍵



Push cursor up or down

Set the hour

按壓向上或向下鍵
設定小時



Push sheet button

Programming finished

按下"頁面"鍵

程式設定已完成



First fill water in the cabinet

Second fill salt tablets in the cabinet

Bewamat 25 4 liters water

Bewamat 75 10 liters water

第一次使用時，需在鹽桶內注入水

Bewamat 25 4 公升

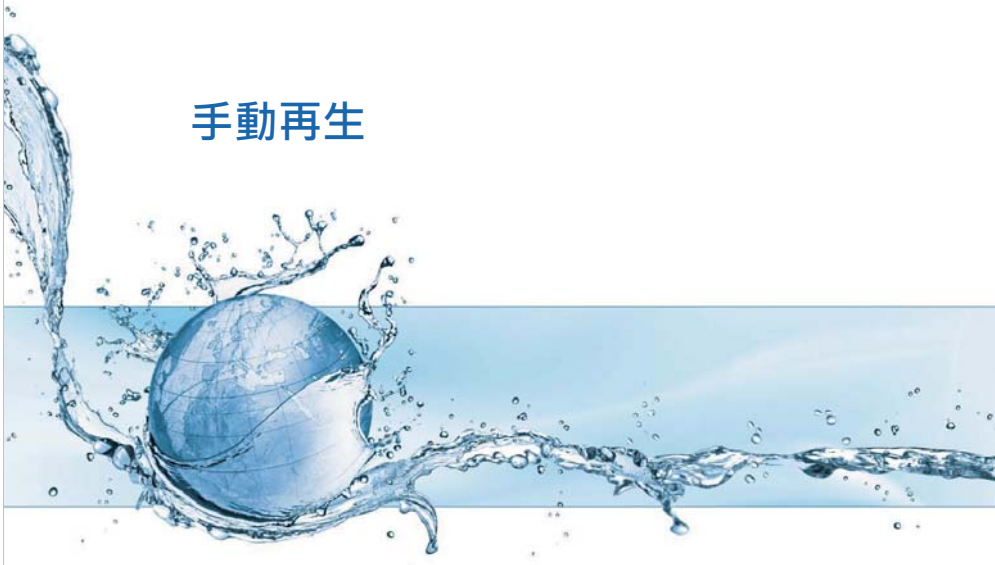
Bewamat 75 10 公升



Push OK button 4 seconds

按下OK鍵4秒鐘

手動再生



Display switched between rEG On an time

Manual regeneration is activated

螢幕顯示“rEG On”
表示手動再生已啟動

軟水機檢修

Click to add Title



Unplug the power

拔掉電源

Click to add Title



Disconnect the back wash tube

拔掉反洗排水管

Click to add Title



Disconnect the Display

Unscrew the screw left side

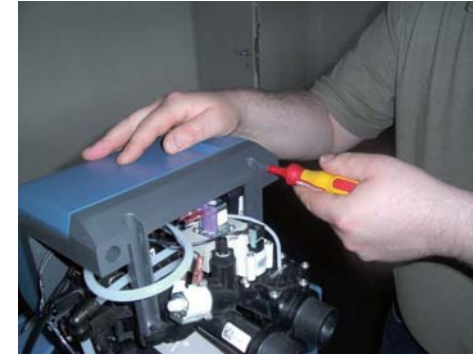
拆掉顯示面板

轉下左側螺絲



Disconnect the Display
Unscrews the screw right side

拆掉顯示面板
轉下右側螺絲



Unscrew the front Display left screw

轉下前面左側螺絲



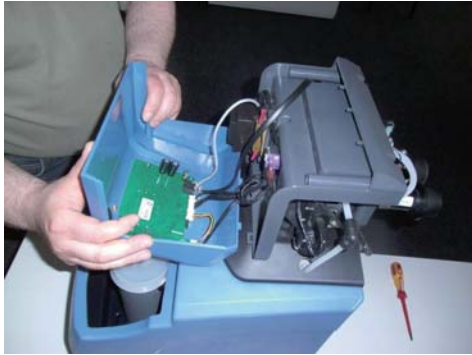
Remove the side cap

移除側蓋板



Unscrew the Display right screw

轉下前面右側螺絲



Flap display forward

輕拍拆下面板

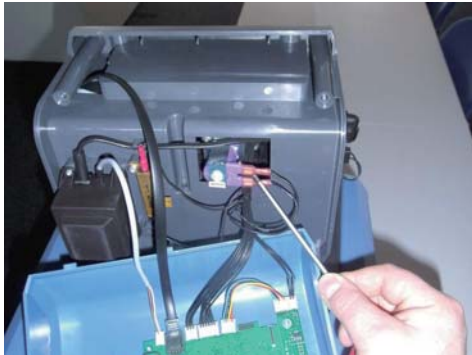
61



Disconnect the magnetic coil forward (pull away)

拆下電磁閥(拉出)

63



Disconnect the plug from the magnetic coil

拆下電磁閥插頭

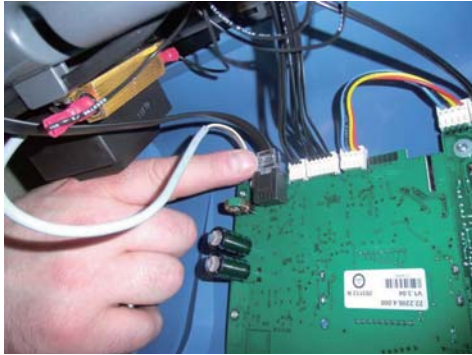
62



Lift the back part forward

拆下背板

64



Disconnect the gearbox plug

拆下齒輪箱插頭

65



Disconnect plug from the bypass valve

拆下旁通閥的插頭

67



Disconnect the plug from the electrolyse

拆下電解設備的插頭

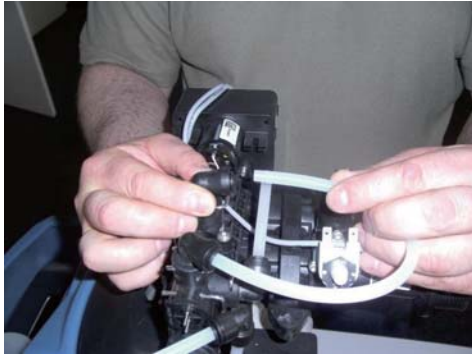
66



Remove the Display with cable harness

移除顯示面板座

68



Disconnect the hose from the injector and the electrolyse cell

拆下注入器至電解設備的管子



Remove the injector

移除注入器



Unscrew the injector (3 screws)

拆下注入器(三顆螺絲)



Remove the injector board from the valve head

從閥頭移除注入器的O-ring及板子



Disconnect the clam from the electrolyse cell

移除電解設備的卡夾



Disconnect the bypass valve

Unscrew the three screws

拆下旁通電磁閥

拆下螺絲



Remove the electrolyse cell

移除電解之電極頭



Remove the bypass valve

移除旁通電磁閥



Remove the membran from the bypass out of the valve head

移除旁通設備內的薄膜



Remove the electrican part from the water meter

移除流量計上方的電子零件



Disconnect the screws from the watermeter

拆下流量計的螺絲



Remove the O- Ring

移除O-ring



Remove the fan

移除流量計葉片



Cabinett with brine valve in the lid

鹽桶內部及吸鹽器



Unclosed water meter

流量計內部



Remove the cap

移除吸鹽器上蓋



Disconnect the hose from the brine valve

Remove the lid with the brine valve

拆下吸鹽套件上的管子
移除管子上的管帽



Nut disconnect

Remove the brine valve out of the lid

拆下的螺帽
移除吸鹽閥件組

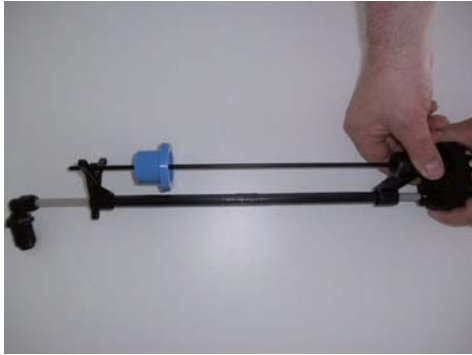


Disconnect the nut from the brine valve inlet

拆下吸鹽套件上的螺帽

清潔吸鹽閥件組





Disconnected brine valve

拆下吸鹽器內的閥件組



Brine valve with inlets

吸鹽器內炭物



Disconnect the brine valve lid

拆下上蓋



Remove the red or green ball

移除紅色或綠色球



Remove the brine elbow

移除彎肘



Remove the ball from the inside of the shaft

移除軸承內的球



Remove the rubbering

Move up the shaft from the brine valve

移除橡膠物品
向上移動軸承



Remove the O ring from the brine valve lid

移除吸鹽器蓋內的O-ring



Brine valve with all inlays

Clean the all parts with clean water and a soft brush

吸鹽器內部分解展示

請使用乾淨的水及軟毛刷清潔所有零件



Slide the shaft in to the hole from the brine valve

將軸承緩慢移入孔洞內



Put out the shaft and check it

1

放入軸承



Shaft inserted

軸承已正確插入



Insert the ball into the shaft

在軸承上放入球

101



Insert the rubberring

放入橡膠物

103



Ball is in the shaft

球在軸承內

102



Rubberring is in the inlay

橡膠物已正確放入

104



Insert the valve elbow

放入彎肘

105



Insert the ball

放入球

107



Brine elbow is on the rubbering

彎肘放在橡膠物上

106



Ball is in the brine valve

球在吸鹽閥上

108



Insert the o ring into the brine valve lid

在吸鹽蓋上放入O-ring

109



Screw on the brine valve lid onto the brine valve

轉上吸鹽器的蓋子

111



O ring is in the brine valve lid

O-ring在吸鹽蓋上

110



Put in the brine valve into the brine shaft

Screw together the brine valve with the brine shaft

將吸鹽器放入吸鹽套件中
並轉上螺帽固定

112



Put in the brine shaft into the cleaned cabinet
Connect the hose with the brine valve

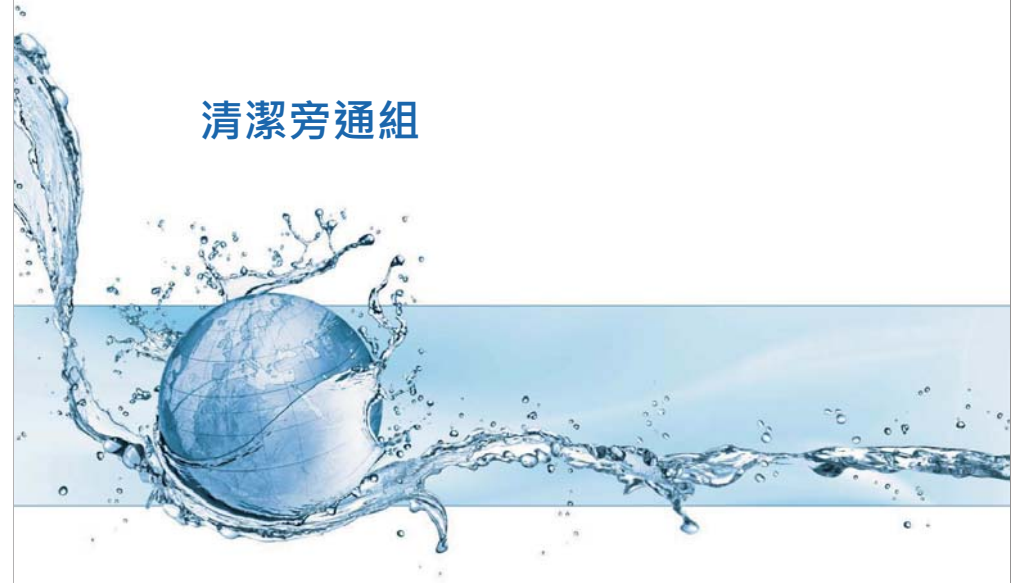
將吸鹽套件放入鹽桶中
並將管子連接



Connect the brine hose with the valve head

將管子連接至閥頭上

清潔旁通組



Cleaning the membran,piston and spring with a soft clean
brush and clear water

請使用軟毛刷子及乾淨的水，清潔薄膜、
軸承、彈簧等元件



Employ the spring into the magnetic coil

將彈簧裝入電磁閥中

117



Employ the membran carefully into the valve head

將薄膜小心的裝入閥頭

119



Employ the piston into the magnetic coil

將軸承裝入電磁閥

118

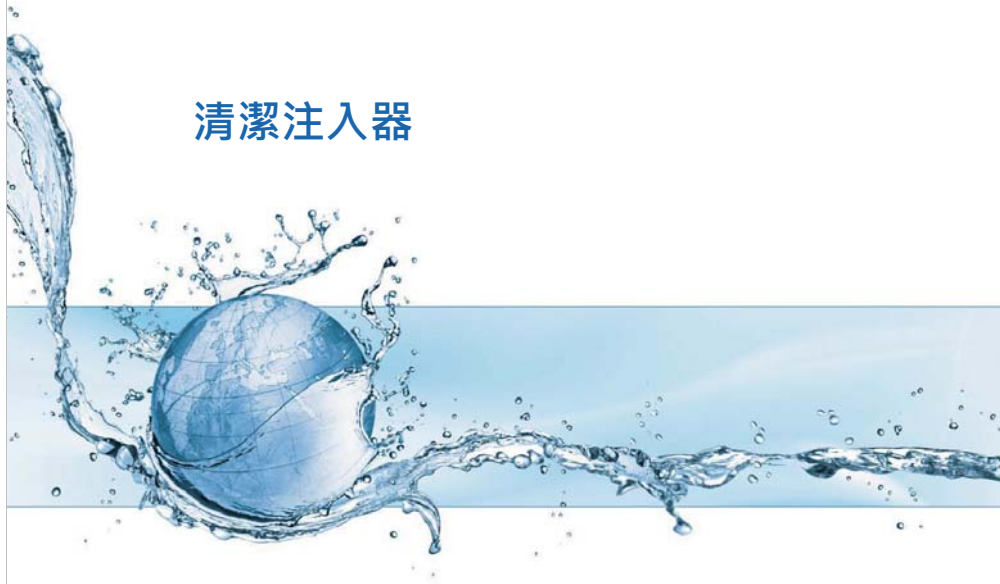


Connect the bypass valve with the three screws to the valve head

安裝旁通電磁閥，並螺上三顆螺絲

120

清潔注入器



For You and Planet Blue. **BWT**
BEST WATER TECHNOLOGY

Click to add Title

For You and Planet Blue. **BWT**
BEST WATER TECHNOLOGY



Unscrew the retaining plate

轉下固定板

Click to add Title

For You and Planet Blue. **BWT**
BEST WATER TECHNOLOGY



Remove the retaining plate

移除固定板

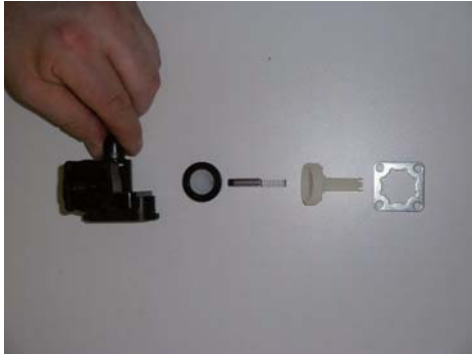
Click to add Title

For You and Planet Blue. **BWT**
BEST WATER TECHNOLOGY



Remove the membran,piston and spring

移除薄膜、轉軸、彈簧



Clean the inlays with water and a soft brush

使用軟毛刷及清水清潔零件



Injector without the plate

板子與注入器



Disconnect the plate from the injector

分開板子與注入器



Clean the Injector with water

Look if the green ball is free from dirt or other substances

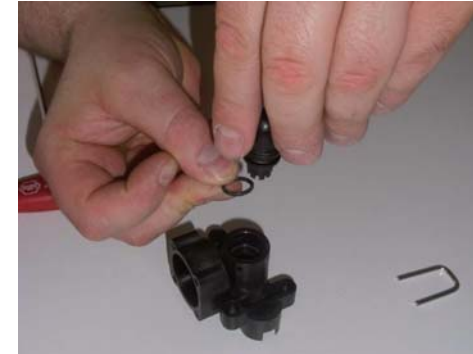
使用清水清潔注入器
檢查綠球可自由活動，不受雜質及污物影響



Disconnect the clamp

移掉固定夾

129



Clean the Injektor, elbow and seal with water

使用清水清潔注入器、彎肘、O-ring

131



Remove the elbow

移掉彎肘

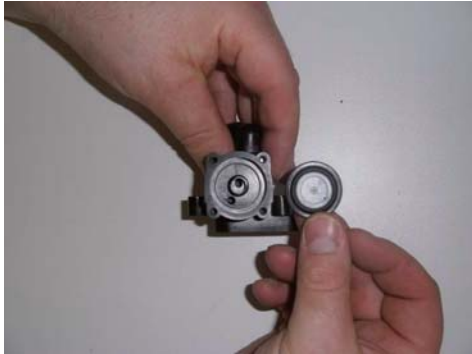
130



Connect the elbow and firm it with the clamp

使用固定夾安裝彎肘

132



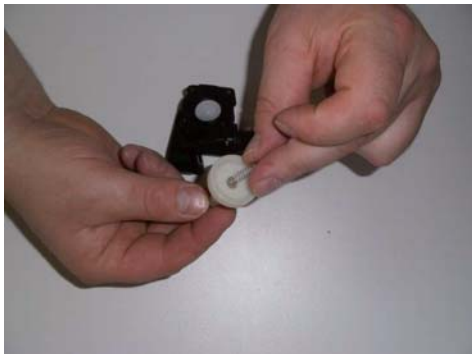
Employ the membran carefully

小心的安裝薄膜



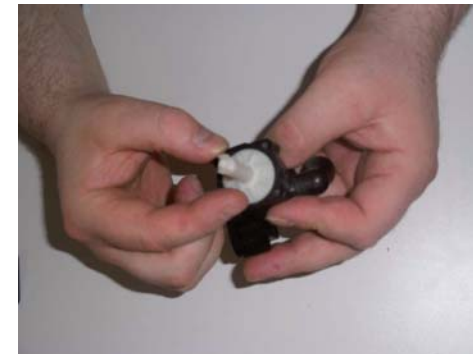
Employ the piston into the magnetic coil

安裝軸承在電磁閥內



Employ the spring into the magnetic coil

將彈簧安裝在電磁閥內



Employ the magnetic coil with inlays into the the injektor

安裝電磁閥與注入器



Employ the retaining plate

安裝固定板

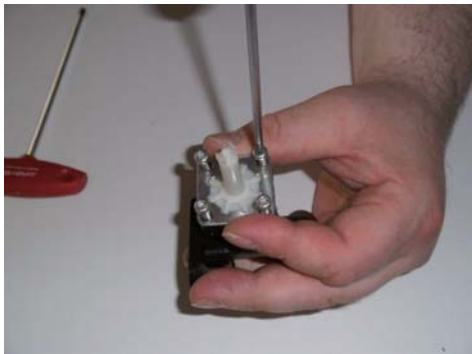
137



Employ the injektor board into the valve head

安裝注入器在閥頭

139



Screw the retaining plate to the injektor with four screws

螺上四個螺絲固定板子

138



Employ the O - ring

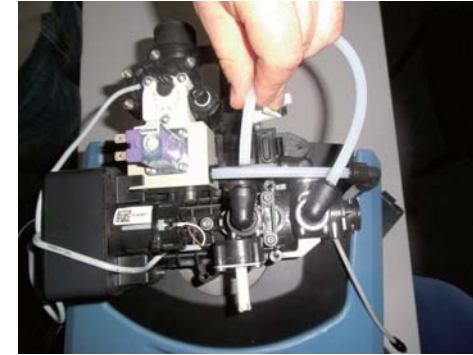
安裝O-ring

140



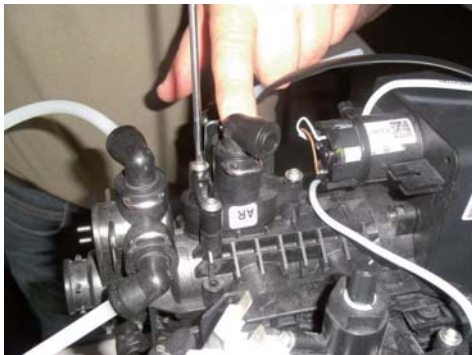
Connect the Injektor through the valve head

安裝主入器



Employ the brine hose into the injektor

安裝至注入器的管子



Screw the injektor with three screws into the valve head

鎖上三顆螺絲安裝注入器

清潔電解電極





Clean the electrolyse cell with an cloth and look that the pins are fasten

使用布清潔電解電極，並檢視電極是否穩固



Employ the electrolyse cell

安裝電解電極



If the plastic cops exist remove them

假如塑膠物件覆蓋在電極上，請移除它。

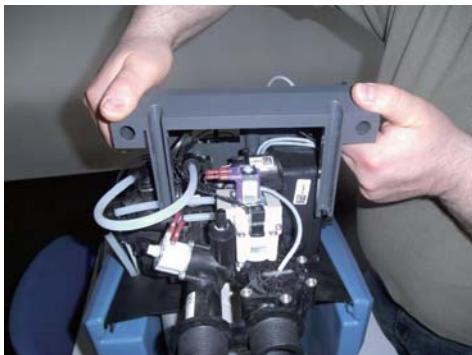


Fix the electrolyse cell with the clam

使用固定夾固定電解電極

連接控制器及線路

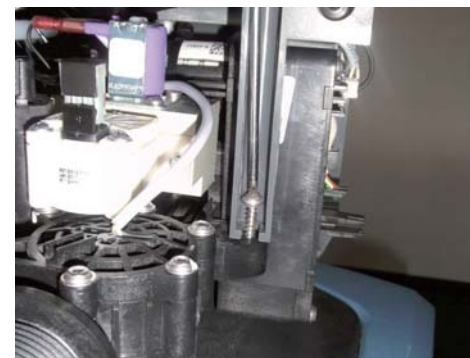
Click to add Title



Connect the back part from the Display with the valve head

連接閥頭及顯示器面板座

Click to add Title



Screw the backpart with the valve head together

鎖上螺絲

Click to add Title



Install the magnetic coil

安裝電磁閥



Put in the cabelshoes into the magentic coli

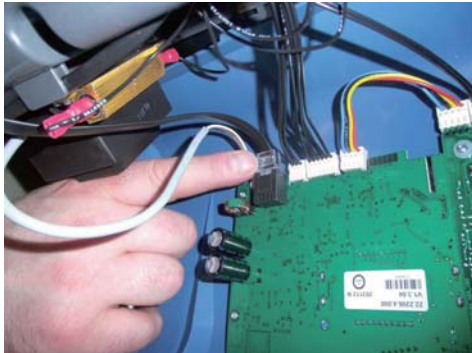
插上電磁閥的插頭



Connect the cable from the bypass valve

Do not exchange plus and minus

連接旁通閥連接插頭
正負極請勿插錯



Connect the cabel from the gearbox

連接齒輪箱連接線



Put the pins from the Display into the holes from the back part

將顯示器插頭穿過面板座的洞



Flap back the Display and hold it together with the back part

輕拍面板，使其與面板座結合

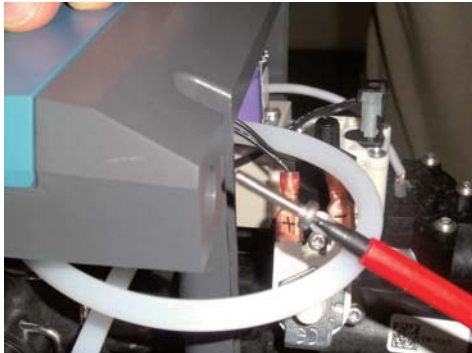
157



Start running the softener

啟動軟水器

159

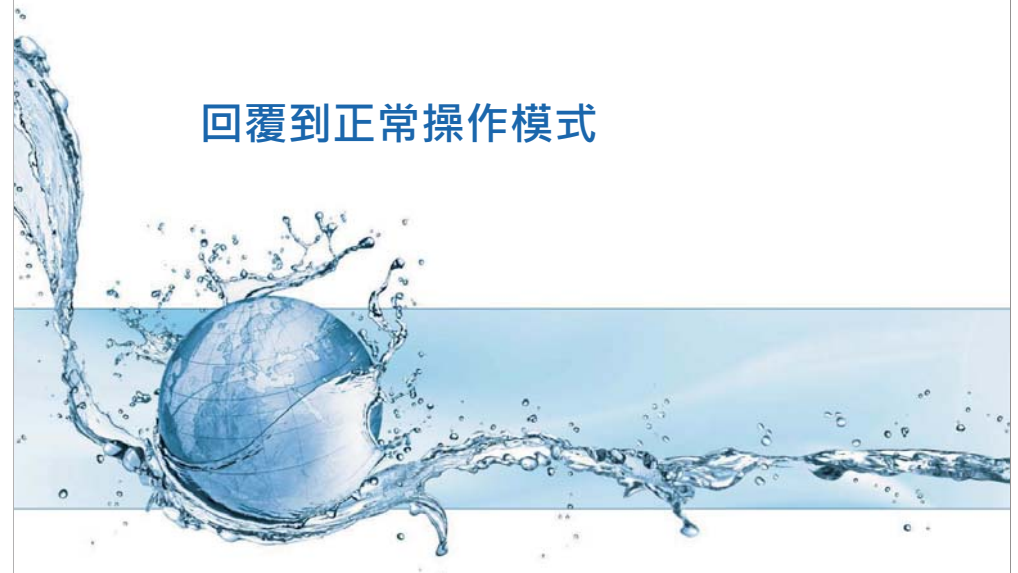


Screw the Display with the backpart together

螺上螺絲將面板固定在面板座

158

回覆到正常操作模式





Display is blinking

Push cursor left right and down together

Service is reposition

顯示面板呈獻閃爍
同時按壓“左鍵”“右鍵”及“向下鍵”
回覆至正常操作模式

2. 問題解決

換驅動馬達



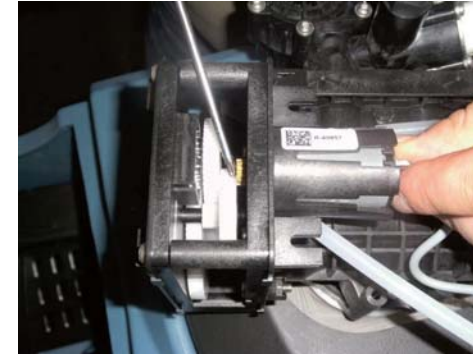
Remove the cables from the gearbox

移除齒輪箱連接線路



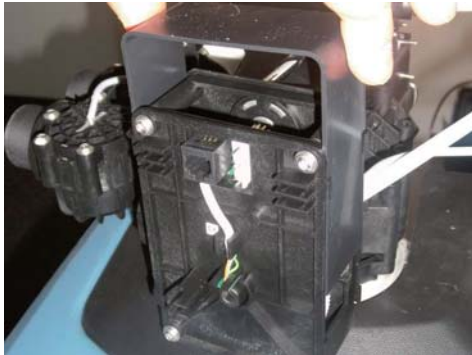
Unscrew the four screws from the gearbox

轉下齒輪箱的四顆螺絲



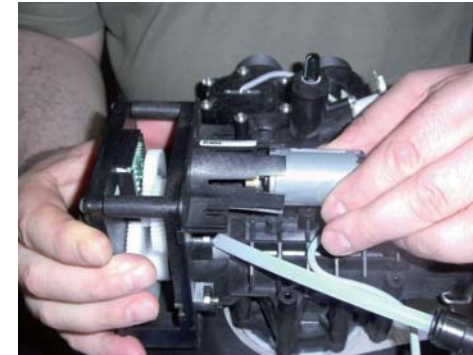
Pull out the Motor from the gear
Disconnect the cables from the motor

取下馬達
拆下馬達上的電線



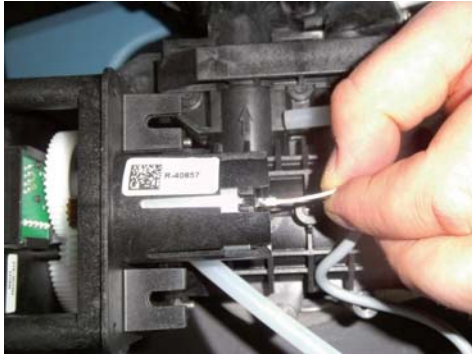
Pull out the cover from the gearbox

移掉齒輪箱的外蓋



Motor developed

取出



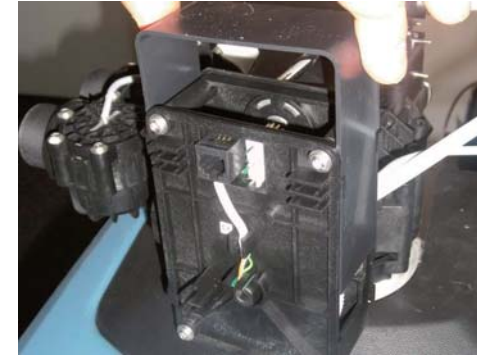
Install the motor

Cabel connection must be exactly in an upright position

安裝新的馬達

正確安裝馬達上的電線位置

169



Install the gearbox cover

安裝齒輪箱的外蓋

171



Install the safty ring

安裝安全環

170



Connect the cover

172

更換齒輪及軸承

Click to add Title



Disconnect the cover from the gearbox cover

拆下齒輪的四顆螺絲

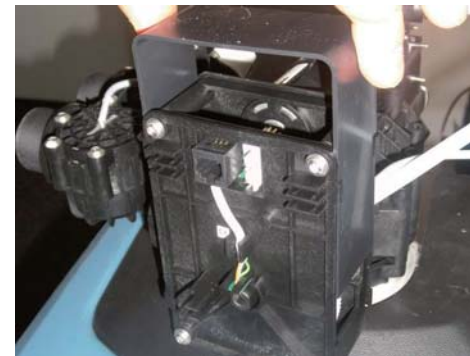
Click to add Title



Disconnect the cables

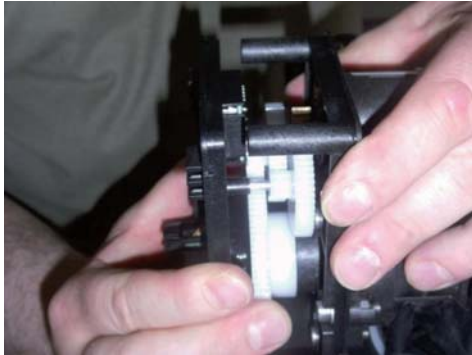
移除齒輪箱連接線路

Click to add Title



Pull out the gearbox cover

取下外蓋



Remove the bearing shield

移去側板

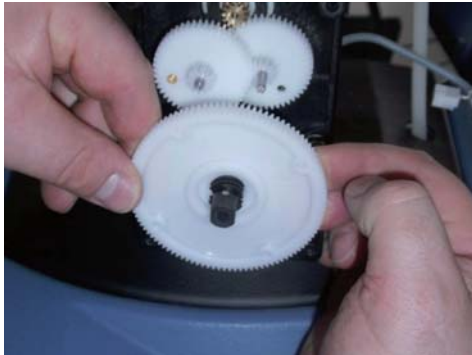
177



Pull out the the Piston

取出軸承

179



Pull out the large gearwheel with the piston

取出最大的齒輪

178



Remove the left gearwheel

移除左齒輪

180



Remove the right gearwheel

Change the gearwheels

移除右齒輪

更換齒輪



Install the left new gearwheel

安裝新的左齒輪



Install the right new gearwheel

安裝新的右齒輪



Be carefull:

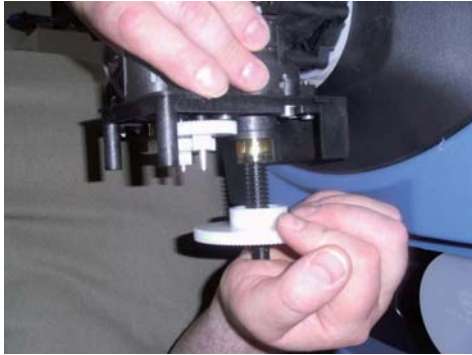
Left gearwheel is with a brassdetector

Right gearwheel has no brassdetector

請注意

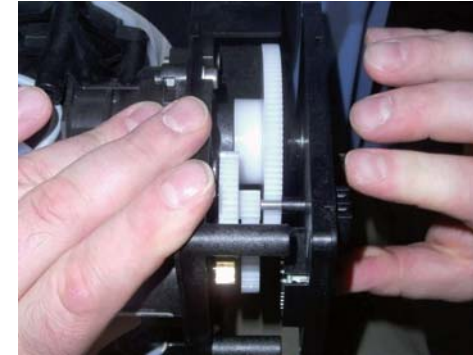
左齒輪上的一個黃銅的偵測點

右齒輪上無黃銅的偵測點



Put in the new gearwheel with the new large gearwheel
Click in the large gearwheel into the left teeth from the left gearwheel

裝上新的最大齒輪
使最大齒輪與左齒輪卡上



Install the bearing shield

安裝側板



It is very important that from the piston the hall detector is in the right position

The right position is when the hall detector is looking upwards

這裡非常重要是軸承上的偵測點必需要必需朝上安裝

這偵測點朝上才是正確的安裝位置



Fix the bearing shield with the four screws

安裝側板上的四顆螺絲



Install the gearbox cover

安裝齒輪箱的外蓋

189



Connect all cables

連接線路

191



Screw the four screws firm

螺緊四顆螺絲

190

更換軸承環





Disconnect the six screws from the rear gearbox plate

拆下齒輪箱背板上的六顆螺絲



Disconnect carefully the rear gearbox plate

小心的拆下齒輪背板



Rear gearbox plate without screws

拆下螺絲的背板



Put out the pistonrings

取出軸承環



Developed Pistonrings

取出的軸承環



Please grease the valve body lightly

請稍為潤滑閥頭



Clean the valve body with a fluffless cloth

使用無絨毛材質的布清潔閥頭



Special tool for changing the piston rings

請使用特殊工具進行軸承環的更換工作



Put the pistonrings on the special tool

將軸承環放在特殊工具上

201



Install the last piston ring by hand

用手安裝最後一個軸承環

203



Put in the valve body the pistonrings

將軸承環放入閥頭內

202



Grease the piston lightly

稍為潤滑一下軸承

204



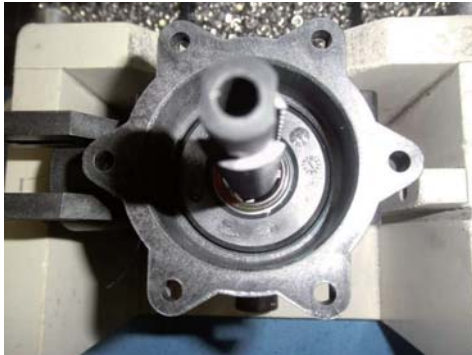
Put the piston into the valve body with the piston rings

將軸承放入閥頭內的軸承環中



Put in the two O – Rings into the rear gearbox plate

在齒輪背板上裝上兩個O-ring



Manufacture piston

安裝軸承



O- Rings inside

裝上O-ring的背板



Put on the valve body the rear gearbox plate

將齒輪背板裝在閥頭上



Screw firm the rear gearbox plate

Warning : Halldetector has to be looking upwards

安裝齒輪背板上的螺絲
注意：軸承上的偵側點需朝上



Rear gearbox plate installed

齒輪背板安裝



Install the riht new gearwheel

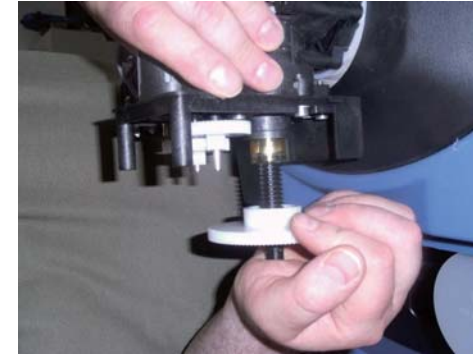
安裝右齒輪



Install the left new gearwheel

安裝左側新齒輪

213



Put in the new gearwheel with the new large gearwheel

Click the large gearwheel into the left teeth from the left gearwheel

裝上新的最大齒輪
使最大齒輪與左齒輪卡上

215



Be carefull:

Left gearwheel is with a brassdetector

Right gearwheel has no brassdetector

請注意

左齒輪上的一個黃銅的偵測點

右齒輪上無黃銅的偵測點

214



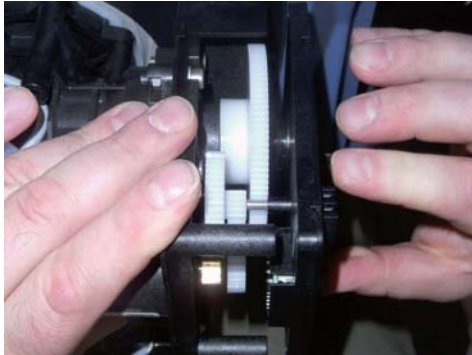
It is very important that from the piston the halldetector is in the right position

The right position is when the halldetector is looking upwards

這裡非常重要是軸承上的偵測點必需要必需朝上安裝

這偵測點朝上才是正確的安裝位置

216



Install the bearing shield

安裝側板

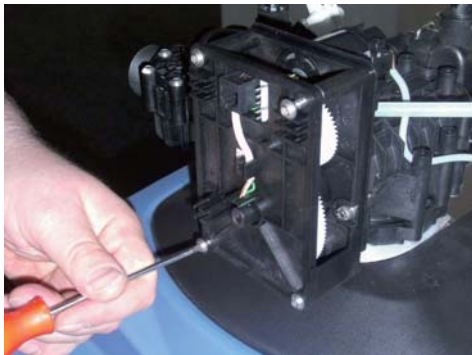
217



Install the gearbox cover

安裝外蓋

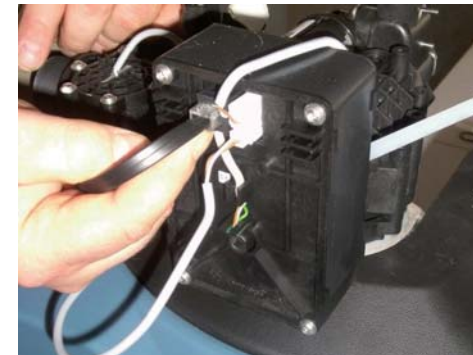
219



Fix the bearing shield with the four screws

螺上側板上的四顆螺絲

218



Connect all cables

連絡所有的電路線

220



Screw the four screws firm

鎖緊四顆螺絲

221

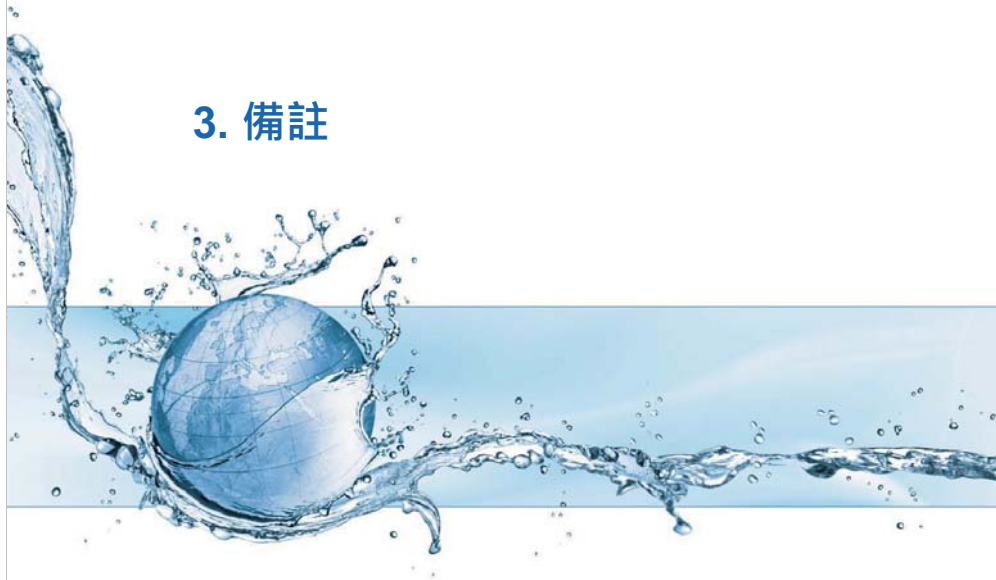


Special tool für changing the piston rings

更換軸承環的特殊工具

223

3. 備註



Check the distance of the float

Bewamat 25 = 100mm

檢查吸鹽套件內的浮球高度

Bewamat 25 = 100mm

224



Check the distance of the float

Bewamat 75 = 240mm

檢查吸鹽套件內的浮球高度

Bewamat 75 = 240mm

- Calculate the capacity of softened water
- $K = \text{Bewamat 25 } 25\text{m}^3 \times \text{dH} \text{ (25m}^3 \text{ capacity)}$
- $K = \text{Bewamat 75 } 75\text{m}^3 \times \text{dH} \text{ (75m}^3 \text{ capacity)}$
- $E = \text{Inlet water hardness}$
- $V = \text{Blendness water hardness}$

$$\frac{K \times 1000}{E - V} = \text{supply of softened water in liters}$$



Check kit for hardness

原廠硬度試劑

- Bewamat 25
- 進水硬度 25°dH
- 出水硬度 (混合閥) 5°dH

計算容量:

$$\frac{25\text{m}^3}{(25 - 5^\circ\text{dH})} = 1,25\text{m}^3$$

答案: 設定軟水供應量 $1,25\text{m}^3 = 1250 \text{ liters}$